BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads, Drains and Culverts at Balaji Layout and Surrounding area at Kodigehalli Ward No. 08.**

	008-19-000038		P-3522			Est Cost:		6000000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	RCC Drains 4th Main Balaji Layout		2	160.00	1.00	1.00	320.00		
			2	30.00	1.00	1.00	60.00		
			2	55.00	1.00	1.00	110.00		
	Cross Road		2	98.00	1.00	1.00	196.00		
	Culverts		1	11.00	1.80	1.20	23.76		
	Basic Rate	130.00					**709.76**	243.88	**173096.00**
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		243.88							
2	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(Page No. 13 / Item No. 4.2 PWD SR 2018-19**	Cum							
	RCC Drains 4th Main Balaji Layout		2	160.00	1.00	0.15	48.00		
			2	30.00	1.00	0.15	9.00		
			2	55.00	1.00	0.15	16.50		
	Cross Road		2	98.00	1.00	0.15	29.40		
	Culverts		1	11.00	1.80	0.15	2.97		
							105.87	5505.64	**582882.00**
	Basic Rate	5194.00							
	Area Weightage @ 6%	311.64							
	Total	**5505.64**							
3	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.9. PWD SR 2018-19**	Cum							
			1x2	11.00	0.60	0.90	11.88		
	Basic Rate	5483.00					**11.88**	5811.98	**69046.00**
	Area Weightage @ 6%	328.98							
	Total	**5811.98**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19**	Cum							
	Coping		1	11.00	1.80	0.10	1.98		
	Ramp		1x2	11.00	1.10	0.15	3.63		
	4th Main Balaji Layout		2	160.00	0.30	0.10	9.60		
			2	30.00	0.30	0.10	1.80		
			2	55.00	0.30	0.10	3.30		
	Cross Road		2	98.00	0.30	0.10	5.88		
	Basic Rate	5422.00					**26.19**	5747.32	**150522.00**
	Area Weightage @ 6%	325.32							
	Total	**5747.32**							
5	KSRB 15.1.3 Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 115 / Item No. 15.3, PWD SR 2018-19**	Sqm							
	Pointing		1x2	11.00		0.90	19.80		
	Basic Rate	142.00					**19.80**	150.52	**2980.00**
	Area Weightage @ 6%	8.52							
	Total	**150.52**							
6	Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm **Page No. 271, Item No. 37.59.2, PWD SR 2018-19**	Cum							
	Drain Bottom Concrete								
	RCC Drains 4th Main Balaji Layout		2	160.00	0.90	0.15	43.20		
			2	30.00	0.90	0.15	8.10		
			2	55.00	0.90	0.15	14.85		
	Cross Road		2	98.00	0.90	0.15	26.46		
	Side Wall								
	RCC Drains 4th Main Balaji Layout		4	160.00	0.15	0.60	57.60		
			4	30.00	0.15	0.60	10.80		
			4	55.00	0.15	0.60	19.80		
	Cross Road		4	98.00	0.15	0.60	35.28		
	Basic Rate	6670.00					**216.09**	7070.20	**1527800.00**
	Area Weightage @ 6%	400.20							
	Total	**7070.20**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19**	Tonne							
	For Roof, Columns @ 60 Kg / Cum		0.06	216.09			**12.97**	75223.96	**975309.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 27 / Item No. 5.30 PWD SR 2018-19**	No							
			2	160.00			711		
				0.45					
			2	30.00			133		
				0.45					
			2	55.00			244		
				0.45					
			2	98.00			436		
				0.45					
	Basic Rate	408.00					**1524**	432.48	**659292.00**
	Area Weightage @ 6%	24.48							
	Total	**432.48**							
9	KSRB 15-19.1 : Providing and applying ready mix priming coat **over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 124 / Item No. Item No. 15.80, PWD SR 2018-19**	Sqm							
	RCC Drains 4th Main Balaji Layout		2	160.00		0.45	144.00		
			2	30.00		0.45	27.00		
			2	55.00		0.45	49.50		
	Cross Road		2	98.00		0.45	88.20		
	Basic Rate	37.00					**308.70**	39.22	**12107.00**
	Area Weightage @ 6%	2.22							
	Total	**39.22**							
10	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 124 / Item No. Item No. 15.81, PWD SR 2018-19**	Sqm							

Sl. No	Description	Unit	No.	L	B	D	Qty		
	Culvert		Qty Vide Item No. 9				**308.70**	90.10	**27814.00**
	Basic Rate	85.00							
	Area Weightage @ 6%	5.10							
	Total	**90.10**							
11	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data rate	Sqm							
	Culvert Covering Slab		19	1.80	0.60		20.52		
							20.52	5418.00	**111177.00**
12	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data rate	Sqm							
	Covering Slab								
	RCC Drains 4th Main Balaji Layout		2	160.00	0.90		288.00		
			2	30.00	0.90		54.00		
			2	63.00	0.90		113.40		
							455.40	2337.00	**1064270.00**
	Sub Total								**5356295.00**
	GST @ 12%								**642755.00**
	Miscellaneous and unforeseen charges	LS							**950.00**
								Total	**6000000.00**

Rupees Sixty Lakh(s) Only

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

26/09

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

26/09

Technical Sanction
Accorded For RS60 Lakhs only
Head of A/C P3522
CER NO 246 Dt 28.11.2019

TA

CE (YNK)

ADMINISTRATIVE APPROVAL
Accorded For Rs. 60.00 Lakhs only
Head of A/c. P3522
Div. Ref. No. 82 Date. 30-10-19

30/10
EE(BTP)

AE